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OM protein - protein search, using SW model

Run on: October 18, 2005, 14:38:53 ; Search time 168 Seconds
(without alignments)
970.124 Million cell updates/sec

Title: US-10-626-445-8
Perfect score: 2048
Sequence: 1 MSENSTGILPPAAQVPLAF.....WKILCVTKMPALSGNSVSS 391

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1860064 seqs, 416830855 residues

Total number of hits satisfying chosen parameters: 1860064

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	2048	100.0	391	US-10-626-445-8	Sequence 8, Appli
2	2048	100.0	391	US-10-626-126-8	Sequence 8, Appli
3	2048	100.0	391	US-10-626-398-8	Sequence 8, Appli
4	1735	84.7	391	US-10-626-445-9	Sequence 9, Appli
5	1735	84.7	391	US-10-626-126-9	Sequence 9, Appli
6	1735	84.7	391	US-10-626-398-9	Sequence 9, Appli
7	1370.5	66.9	390	US-09-812-216-2	Sequence 2, Appli
8	1370.5	66.9	390	US-09-910-411-2	Sequence 2, Appli
9	1370.5	66.9	390	US-09-875-076-14	Sequence 14, Appli
10	1370.5	66.9	390	US-09-876-252-14	Sequence 14, Appli
11	1370.5	66.9	390	US-09-852-165-2	Sequence 2, Appli

12	1370.5	66.9	390	US-09-891-138A-6	Sequence 6, Appli
13	1370.5	66.9	390	US-10-052-193-2	Sequence 2, Appli
14	1370.5	66.9	390	US-10-225-567A-629	Sequence 629, App
15	1370.5	66.9	390	US-10-272-983-14	Sequence 14, Appli
16	1370.5	66.9	390	US-10-354-769-2	Sequence 2, Appli
17	1370.5	66.9	390	US-10-393-607-14	Sequence 14, Appli
18	1370.5	66.9	390	US-10-417-820A-14	Sequence 14, Appli
19	1370.5	66.9	390	US-10-349-253A-2	Sequence 2, Appli
20	1370.5	66.9	390	US-10-696-678-14	Sequence 2, Appli
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22	1370.5	66.9	390	US-10-782-596-14	Sequence 14, Appli
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24	1370.5	66.9	390	US-10-626-445-2	Sequence 2, Appli
25	1370.5	66.9	390	US-10-684-206-20	Sequence 20, Appli
26	1370.5	66.9	390	US-10-616-088-2	Sequence 2, Appli
27	1370.5	66.9	390	US-10-626-126-2	Sequence 2, Appli
28	1370.5	66.9	390	US-10-626-398-2	Sequence 2, Appli
29	1370.5	66.9	390	US-10-756-149-4702	Sequence 4702, Ap
30	1366.5	66.7	390	US-10-290-078-27	Sequence 27, Appli
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32	1237	60.4	389	US-10-626-126-10	Sequence 10, Appli
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34	723.5	35.6	415	US-10-495-679A-8	Sequence 8, Appli
35	722.5	35.3	445	US-09-350-206-2	Sequence 2, Appli
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38	722.5	35.3	445	US-10-282-958-2	Sequence 2, Appli
39	722.5	35.3	445	US-10-225-567A-549	Sequence 549, App
40	722.5	35.3	445	US-10-453-106-1	Sequence 1, Appli
41	722.5	35.3	445	US-10-727-021-7	Sequence 7, Appli
42	722.5	35.3	445	US-10-757-262-132	Sequence 132, App
43	722.5	35.3	445	US-10-735-963-1	Sequence 1, Appli
44	722.5	35.3	445	US-11-059-105-2	Sequence 2, Appli
45	722.5	35.3	453	US-09-891-053-20	Sequence 20, Appli

ALIGNMENTS

RESULT 1
US-10-626-445-8
; Sequence 8, Application US/10626445
; Publication No. US20040248252A1
; GENERAL INFORMATION:
; APPLICANT: Lovenberg, Timothy
; TITLE OF INVENTION: DNAs Encoding Mammalian Histamine Receptor Of The H4 Subtype
; FILE REFERENCE: PRD-0032
; CURRENT APPLICATION NUMBER: US/10/626,445
; CURRENT FILING DATE: 2003-07-23
; PRIOR APPLICATION NUMBER: 09/790,849
; PRIOR FILING DATE: 2001-02-22
; PRIOR APPLICATION NUMBER: 60/208,260
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 8
; LENGTH: 391
; TYPE: PRT
; ORGANISM: Mus musculus
US-10-626-445-8
Query Match 100.0%; Score 2048; DB 16; Length 391;
Best Local Similarity 100.0%; Pred. No. 6.1e-180; Indels 0; Gaps 0;
Matches 391; Conservative 0; Mismatches 0;
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QY 61 DFLVGLISPIYIPHVLEFNNMFGSGICFWLITDYLCTASVNIIVLISYRYSVSNV 120
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Db 361 PLCHRRFQKAFWKILCVTKWPALSONOSVSS 391
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RESULT 2

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US-10-626-126-8
; Sequence 8, Application US/10626126
; Publication No. US20050074770A1
; GENERAL INFORMATION:
; APPLICANT: Lovenberg, Timothy
; TITLE OF INVENTION: DNAs Encoding Mammalian Histamine Receptor Of The H4 Subtype
; FILE REFERENCE: PRD-0033
; CURRENT APPLICATION NUMBER: US/10/626,126
; PRIOR FILING DATE: 2003-07-23
; PRIOR APPLICATION NUMBER: 09/790,849
; PRIOR FILING DATE: 2001-02-22
; PRIOR APPLICATION NUMBER: 60/208,260
; PRIOR FILING DATE: 2000-05-31
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 8
; LENGTH: 391
; TYPE: PRT
; ORGANISM: Mus musculus
US-10-626-126-8
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Query Match 100.0%; Score 2048; DB 17; Length 391;
Best Local Similarity 100.0%; Pred. No. 6,1e-180;
Matches 391; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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RESULT 3

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US-10-626-398-8
; Sequence 8, Application US/10626398
; Publication No. US20050074841A1
; GENERAL INFORMATION:
; APPLICANT: Lovenberg, Timothy
; TITLE OF INVENTION: DNAs Encoding Mammalian Histamine Receptor Of The H4 Subtype
; FILE REFERENCE: PRD-0034
; CURRENT APPLICATION NUMBER: US/10/626,398
; PRIOR FILING DATE: 2003-07-23
; PRIOR APPLICATION NUMBER: 09/790,849
; PRIOR FILING DATE: 2001-02-22
; PRIOR APPLICATION NUMBER: 60/208,260
; PRIOR FILING DATE: 2000-05-31
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 8
; LENGTH: 391
; TYPE: PRT
; ORGANISM: Mus musculus
US-10-626-398-8
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Query Match 100.0%; Score 2048; DB 17; Length 391;
Best Local Similarity 100.0%; Pred. No. 6,1e-180;
Matches 391; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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US-10-626-445-9
; Sequence 9, Application US/10626445
; Publication No. US20040248252A1
; GENERAL INFORMATION:
; APPLICANT: Lovenberg, Timothy
; TITLE OF INVENTION: DNAs Encoding Mammalian Histamine Receptor Of The H4 Subtype
; FILE REFERENCE: PRD-0032
; CURRENT APPLICATION NUMBER: US/10/626,445
; PRIOR FILING DATE: 2003-07-23
; PRIOR APPLICATION NUMBER: 09/790,849
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PRIOR FILING DATE: 2001-02-22
 PRIOR APPLICATION NUMBER: 60/208,260
 PRIOR FILING DATE: 2000-05-31
 NUMBER OF SEQ ID NOS: 27
 SOFTWARE: PatentIn version 3.2
 SEQ ID NO 9
 LENGTH: 391
 TYPE: PRT
 ORGANISM: Rattus rattus
 US-10-626-445-9

Query Match 84.7%; Score 1735; DB 16; Length 391;
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RESULT 5

US-10-626-126-9
 Sequence 9, Application US/10626126
 Publication No. US20050074770A1
 GENERAL INFORMATION:

APPLICANT: Lovenberg, Timothy
 APPLICANT: Liu, Changlu
 TITLE OF INVENTION: DNAs Encoding Mammalian Histamine Receptor Of The H4 Subtype
 FILE REFERENCE: PRD-0033
 CURRENT APPLICATION NUMBER: US/10/626,126
 PRIOR FILING DATE: 2003-07-23
 PRIOR APPLICATION NUMBER: 09/790,849
 PRIOR FILING DATE: 2001-02-22
 PRIOR APPLICATION NUMBER: 60/208,260
 PRIOR FILING DATE: 2000-05-31
 NUMBER OF SEQ ID NOS: 27
 SOFTWARE: PatentIn version 3.2
 SEQ ID NO 9
 LENGTH: 391
 TYPE: PRT
 ORGANISM: Rattus rattus
 US-10-626-126-9

Query Match 84.7%; Score 1735; DB 17; Length 391;
 Best Local Similarity 84.7%; Pred. No. 4.2e-151;
 Matches 331; Conservative 17; Mismatches 43; Indels 0; Gaps 0;

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 DB 301 RGLASLAILSAFAICWAPYCLFTIVLSTYPTERPKSVWYSIAFWLQWNSFVNPLY 360
 QY 361 PLCHRRFQKAFWKILCVTKQAPASQOSVSS 391
 DB 361 PLCHRRFQKAFWKILCVTKQAPASQOSVSS 391

RESULT 6

US-10-626-398-9
 Sequence 9, Application US/10626398
 Publication No. US20050074841A1
 GENERAL INFORMATION:

APPLICANT: Lovenberg, Timothy
 APPLICANT: Liu, Changlu
 TITLE OF INVENTION: DNAs Encoding Mammalian Histamine Receptor Of The H4 Subtype
 FILE REFERENCE: PRD-0034
 CURRENT APPLICATION NUMBER: US/10/626,398
 PRIOR FILING DATE: 2003-07-23
 PRIOR APPLICATION NUMBER: 09/790,849
 PRIOR FILING DATE: 2001-02-22
 PRIOR APPLICATION NUMBER: 60/208,260
 PRIOR FILING DATE: 2000-05-31
 NUMBER OF SEQ ID NOS: 27
 SOFTWARE: PatentIn version 3.2
 SEQ ID NO 9
 LENGTH: 391
 TYPE: PRT
 ORGANISM: Rattus rattus
 US-10-626-398-9

Query Match 84.7%; Score 1735; DB 17; Length 391;
 Best Local Similarity 84.7%; Pred. No. 4.2e-151;
 Matches 331; Conservative 17; Mismatches 43; Indels 0; Gaps 0;

QY 1 MSESNGTGLPPAAQVPLAFMSSPAFAIMGNVAVILAFVVDRLRHSNYPFLNLAIS 60
 DB 1 MSESNGTGLPPLTAQVPLAFMSSPAFAIMGNVAVILAFVVDRLRHSNYPFLNLAIS 60
 QY 61 DELVGLISIPLYIPHTLFNNMFGSGICMFMLITDYLLCTASVYSLVLSYDRYQSVSNV 120
 DB 61 DFFVGVISIPLYIPHTLFNNMFGSGICMFMLITDYLLCTASVYSLVLSYDRYQSVSNV 120
 QY 121 SYRAOHTGIMKIQAQVAVWVILAFVNGPMILASDSMNSTNTKDCBPGFTWYILIT 180
 DB 121 SYRAOHTGIMKIQAQVAVWVILAFVNGPMILASDSMNSTNTKDCBPGFTWYILIT 180
 QY 121 RYRAOHTGILKIQAQVAVWVILAFVNGPMILASDSMNSTNTKDCBPGFTWYILIT 180
 DB 121 RYRAOHTGILKIQAQVAVWVILAFVNGPMILASDSMNSTNTKDCBPGFTWYILIT 180
 QY 181 MLEFLPLVSVAYFNVQIYWSLMKRRALSRCPSHAGFTSSASGHLRAGVACRTSN 240
 DB 181 ALEFLPLVSVAYFNVQIYWSLMKRRALSRCPSHAGFTSSASGHLRAGVACRTSN 240
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 DB 241 PGLKSPASLHSESPRKSILVSLRTMNSGIIAFKGSFCRSESPLYHQREHVELLNG 300

[illegible]

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US-09-812-216-2
RESULT 7
US-09-812-216-2
Sequence 2, Application US/09812216
Publication No. US20020098539A1
GENERAL INFORMATION:
APPLICANT: Behan, Jiang Xu
APPLICANT: Hedrick, Joseph A.
APPLICANT: Iaz, Thomas M.
APPLICANT: Monnema, Frederick J. Jr.
APPLICANT: Morse, Kelley L.
APPLICANT: Umland, Shelby P.
APPLICANT: Wang, Suke
TITLE OR INVENTION: Histamine receptor
FILE REFERENCE: CN01069
CURRENT APPLICATION NUMBER: US/09/812,216
CURRENT FILING DATE: 2001-03-19
PRIOR APPLICATION NUMBER: 09/414,010
PRIOR FILING DATE: 1999-10-07
NUMBER OF SEQ ID NOS: 8
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 2
LENGTH: 390
TYPE: PRT
ORGANISM: Homo sapiens
US-09-812-216-2

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Query Match	66.9%	Score 1370.5	DB 9	Length 390
Best Local Similarity	68.1%	Pred. No. 1.6e-117		
Matches 267	Conservative 40	Mismatches 82	Indels 3	Gaps 2

[illegible]

RESULT 8
US-09-910-411-2
; Sequence 2, Application US/09910411
; Patent No. US20020137054A1

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1 GENERAL INFORMATION:
2 APPLICANT: Bergsma, Derk
3 APPLICANT: Fitzgerald, Laura
4 APPLICANT: Li, Xiaotong
5 APPLICANT: Michalovich, David
6 APPLICANT: Zhu, Yuan
7 TITLE OF INVENTION: AXOR35, A G-Protein Coupled Receptor
8 FILE REFERENCE: G670655-2C1
9 CURRENT APPLICATION NUMBER: US/09/910,411
10 PRIOR FILING DATE: 2001-07-20
11 PRIOR APPLICATION NUMBER: 09/653,761
12 PRIOR FILING DATE: 2000-10-20
13 PRIOR APPLICATION NUMBER: 09/497,790
14 PRIOR FILING DATE: 2000-02-03
15 PRIOR APPLICATION NUMBER: 09/431,858
16 PRIOR FILING DATE: 1999-11-02
17 NUMBER OF SEQ ID NOS: 2
18 SOFTWARE: FastSeq for Windows Version 4.0
19 SEQ ID NO 2
20 LENGTH: 390
21 TYPE: PRT
22 ORGANISM: Homo sapien
23 US-09-910-411-2

```

US-09-910-411-2

Query Match	66.9%	Score 1370.5	DB 9	Length 390
Best Local Similarity	68.1%	Pred. No. 1.6e-117		
Matches 267, Conservative	40	Mismatches 82	Indels 3	Gaps 2

[illegible]

```

RESULT 9
US-09-875-076-14
; Sequence 14, Application US/09875076
; Publication No. US20030017528A1
; GENERAL INFORMATION:

```

;; TITLE OF INVENTION: Human Orphan G Protein Coupled Receptors
;; FILE REFERENCE: AREN0050

1 CURRENT APPLICATION NUMBER: US/09/875,076
2
3 CURRENT FILING DATE: 2001-06-06
4
5 PRIOR APPLICATION NUMBER: 09/417,044
6
7 PRIOR FILING DATE: 1999-10-12
8
9 PRIOR APPLICATION NUMBER: 60/120,416

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/ PRIOR FILING DATE: 1999-02-16
/ PRIOR APPLICATION NUMBER: 60/121,851
/ PRIOR FILING DATE: 1999-02-26
/ PRIOR APPLICATION NUMBER: 60/123,946
/ PRIOR FILING DATE: 1999-03-12
/ PRIOR APPLICATION NUMBER: 60/123,949
/ PRIOR FILING DATE: 1999-03-12
/ PRIOR APPLICATION NUMBER: 60/136,436
/ PRIOR FILING DATE: 1999-05-28
/ PRIOR APPLICATION NUMBER: 60/136,437
/ PRIOR FILING DATE: 1999-05-28
/ PRIOR APPLICATION NUMBER: 60/136,439
/ PRIOR FILING DATE: 1999-05-28
/ PRIOR APPLICATION NUMBER: 60/136,567
/ PRIOR FILING DATE: 1999-05-28
/ PRIOR APPLICATION NUMBER: 60/137,127
/ PRIOR FILING DATE: 1999-05-28
/ PRIOR APPLICATION NUMBER: 60/137,131
/ PRIOR FILING DATE: 1999-05-28
/ PRIOR APPLICATION NUMBER: 60/141,448
/ PRIOR FILING DATE: 1999-06-29
/ PRIOR APPLICATION NUMBER: 60/156,653
/ PRIOR FILING DATE: 1999-09-29
/ PRIOR APPLICATION NUMBER: 60/156,633
/ PRIOR FILING DATE: 1999-09-29
/ PRIOR APPLICATION NUMBER: 60/156,555
/ PRIOR FILING DATE: 1999-09-29
/ PRIOR APPLICATION NUMBER: 60/156,634
/ PRIOR FILING DATE: 1999-09-29
/ PRIOR APPLICATION NUMBER: 60/157,280
/ PRIOR FILING DATE: 1999-10-01
/ PRIOR APPLICATION NUMBER: 60/157,294
/ PRIOR FILING DATE: 1999-10-01
/ PRIOR APPLICATION NUMBER: 60/157,281
/ PRIOR FILING DATE: 1999-10-01
/ PRIOR APPLICATION NUMBER: 60/157,293
/ PRIOR FILING DATE: 1999-10-01
/ PRIOR APPLICATION NUMBER: 60/157,282
/ PRIOR FILING DATE: 1999-10-01
/ NUMBER OF SEQ ID NOS: 74
/ SOFTWARE: Patentin Ver. 2.1
/ SEQ ID NO 14
/ LENGTH: 390
/ TYPE: PRT
/ ORGANISM: Homo sapiens
US-09-875-076-14
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Query Match      66.9%; Score 1370.5; DB 10; Length 390;
Best Local Similarity 68.1%; Pred. No. 1.6e-117;
Matches 267; Conservative 40; Mismatches 82; Indels 3; Gaps 2;
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QY      1 MSENSTGTLPPAAOVPLAFMLSSFAIMVGNNAVITLAFVVDNRIRHSNTFFNLAI 60
        1 : : : : : : : : : : : : : : : : : : : : : : : : : : : :
        1 MEDTSTNLTSLSTRVTTLAFPMSLVFAIMLGNALVITLAFVVDKNIRHSSYFFNLAI 60
        1 : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB      61 DPLVGLISLPIIPIHYLFENWNGSGICMFWLITDYLLCSAYVNTVLTISYDVQSSNAV 120
        61 : : : : : : : : : : : : : : : : : : : : : : : : : : : :
        61 DFFVGVISLPIIPIHYLFENWNGSGICMFWLITDYLLCSAYVNTVLTISYDVQSSNAV 120
        61 : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY      121 SYRAOHTGIMKIVAOVAVVAVITLAFVNGFMILASDSWKNSTWTXOCPEGFVTEWYLLIT 180
        121 : : : : : : : : : : : : : : : : : : : : : : : : : : : :
        121 SYRQHTGVLKIVTLVAVVAVITLAFVNGFMILVSEWKOEGS--DEPEGFSEWYLLIT 178
        121 : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB      181 MLLEFLPITVAVYVVOIVYSLMKRRALSRCPSHAQSGFTSSASGHLHRAQVACRISN 240
        181 : : : : : : : : : : : : : : : : : : : : : : : : : : : :
        181 SFLLEFVPIITLVAFFMNIYWSLWKRDHLSCQSHGTLAVASNLCGHSFRRLSRRSL 238
        181 : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY      241 PGLKSAASRHSRSPKSSILVSLRTHNNSGITLAFKVSFWRSSAALRQREYVLLNG 300
        241 : : : : : : : : : : : : : : : : : : : : : : : : : : : :
        241 SASTEPVASFSEORRKSLSLMSFTKNSWTLSKMGSFQSDVALHOREHVELLNA 298
        241 : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB      301 RKLASLAILLSAFAICVAFCYCLFTIVLSTYPTTERPKSVWYSIAFWLQMFNSFVNPLY 360
        301 : : : : : : : : : : : : : : : : : : : : : : : : : : : :
        301 : : : : : : : : : : : : : : : : : : : : : : : : : : : :
```

```
DB      299 RRLASLAILLGVAVCAVAPVSLFTIVLSFYSSATGPKSVWYRIAFWLQMFNSFVNPLY 358
QY      361 PLCHRRFQKAFWKILCTKWPALSO-NOSVSS 391
        361 : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB      359 PLCHRRFQKAFKIPCIKQPLPSQHSRVS 390
        359 : : : : : : : : : : : : : : : : : : : : : : : : : : : :

RESULT 10
US-09-876-252-14
/ Sequence 14, Application US/09876252
/ Publication No. US20030018182A1
/ GENERAL INFORMATION:
/ APPLICANT: Behan, Dominic P.
/ APPLICANT: Lehmann-Brulnema, Karin
/ APPLICANT: Chalmers, Derek T.
/ APPLICANT: Lowitz, Kevin P.
/ APPLICANT: Lin, I-Lin
/ APPLICANT: Dang, Huong T.
/ APPLICANT: Chen, Ruoping
/ APPLICANT: Liaw, Chen W.
/ TITLE OF INVENTION: Non-Endogenous Constititively Activated Human G Protein Coupled Rec
/ FILE REFERENCE: AREN-0054
/ CURRENT APPLICATION NUMBER: US/09/876,252
/ CURRENT FILING DATE: 2001-06-07
/ PRIOR APPLICATION NUMBER: 09/416,760
/ PRIOR FILING DATE: 1998-10-12
/ PRIOR APPLICATION NUMBER: 09/170,496
/ PRIOR FILING DATE: 1998-10-13
/ PRIOR APPLICATION NUMBER: 60/110,060
/ PRIOR FILING DATE: 1998-11-27
/ PRIOR APPLICATION NUMBER: 60/120,416
/ PRIOR FILING DATE: 1999-02-16
/ PRIOR APPLICATION NUMBER: 60/121,852
/ PRIOR FILING DATE: 1999-02-26
/ PRIOR APPLICATION NUMBER: 60/109,213
/ PRIOR FILING DATE: 1998-11-20
/ PRIOR APPLICATION NUMBER: 60/123,944
/ PRIOR FILING DATE: 1999-03-12
/ PRIOR APPLICATION NUMBER: 60/123,945
/ PRIOR FILING DATE: 1999-03-12
/ PRIOR APPLICATION NUMBER: 60/123,948
/ PRIOR FILING DATE: 1999-03-12
/ PRIOR APPLICATION NUMBER: 60/123,951
/ PRIOR FILING DATE: 1999-03-12
/ PRIOR APPLICATION NUMBER: 60/123,946
/ PRIOR FILING DATE: 1999-03-12
/ PRIOR APPLICATION NUMBER: 60/123,949
/ PRIOR FILING DATE: 1999-03-12
/ PRIOR APPLICATION NUMBER: 60/152,524
/ PRIOR FILING DATE: 1999-09-03
/ PRIOR APPLICATION NUMBER: 60/151,114
/ PRIOR FILING DATE: 1999-08-27
/ PRIOR APPLICATION NUMBER: 60/108,029
/ PRIOR FILING DATE: 1998-11-12
/ PRIOR APPLICATION NUMBER: 60/136,436
/ PRIOR FILING DATE: 1999-05-28
/ PRIOR APPLICATION NUMBER: 60/136,439
/ PRIOR FILING DATE: 1999-05-28
/ PRIOR APPLICATION NUMBER: 60/136,567
/ PRIOR FILING DATE: 1999-05-28
/ PRIOR APPLICATION NUMBER: 60/137,127
/ PRIOR FILING DATE: 1999-05-28
/ PRIOR APPLICATION NUMBER: 60/137,131
/ PRIOR FILING DATE: 1999-05-28
/ PRIOR APPLICATION NUMBER: 60/141,448
/ PRIOR FILING DATE: 1999-06-29
/ PRIOR APPLICATION NUMBER: 60/136,437
/ PRIOR FILING DATE: 1999-05-28
/ PRIOR APPLICATION NUMBER: 60/156,555
/ PRIOR FILING DATE: 1999-09-29
/ PRIOR APPLICATION NUMBER: 60/156,634
/ PRIOR FILING DATE: 1999-09-29
/ PRIOR APPLICATION NUMBER: 60/156,653
```


Query Match	Similarity	66.9%	Score 1370.5	DB 13	Length 390
Best Local	Similarity	68.1%	Pred. No. 1.6e-117		
Matches	267	Conservative	40	Mismatches	82
				Indels	3
				Gaps	2
QY	1	MSESNSTGILPEPAACVPLAFIMSSFEAPAIMGNAAVITLAVYDRLRHRSNYFFLNTAIS	60		
Db	1	MPDNTSTINTLSISTRVTTLAFPMVSLVAFALMGNALVITLAVYDVKDLRHRSSYFFLNTAIS	60		
QY	61	DFVLGGLSILPIYIPVLFVFNANFGSGICMFWLITDYLLCTASVYNIVLISDRYOSVNAV	120		
Db	61	DFPVGVISIPLVPIPTLFEWMDGKEICFMWLTDDYLLCTASVYNIVLISDYRLSVNAV	120		
QY	121	SYRAOHTSIMKIQAOMVAWVILAFVINGPMIILASDSMKVSTYTKDCEPGFVEMVILITIT	180		
Db	121	SYRQHTGVLLKIVTLMAVAVWVILAFVINGMILVSESMKDEGS--ECEPBFSEWVILAIT	178		
QY	181	MLLEFLFVIVAVYFNVOIYWSLMKRRALSRCPSHAGFSTTSSASGHLRAQVACRTSN	240		
Db	179	SFLFEVILFVILVAYFNMMIYWSLMKRDHLRSCSHPGGLTAVASNINCGHFRRRLSRRL	238		
QY	241	PGLVESASRHSSESFRKKSILVSLRTHNNSITPAFKVSPFRSESAALROSEVALRG	300		
Db	239	SASTSEVPASFSEHORRRKSLTMSFRTKKNSTVILASKGSPQSDSVLAHQEHVELLA	298		
QY	301	RKLARSLAILSAFACVAPCYCLFTVILSTYRTERPKSVWSIASIATWLFQFNSFVNPFLY	360		
Db	299	RRLAKSLAILGVPACVAPYSLFTVILSYFSYSAATGPKSVWRIRAFWILQMFNSFVNPFLY	358		
QY	361	PLCHRRFQKAFWKILCVTKMPALSQ--NQSVS	391		
Db	359	PLCHRRFQKAFKIKCQKPLPSQHSRSVS	390		

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RESULT 15
US-10-272-983-14
; Sequence 14, Application US/10272983
; Publication No. US20030148450A1
; GENERAL INFORMATION:
; APPLICANT: Chen, Ruoping
; APPLICANT: Dang, Hong T.
; APPLICANT: Liaw, Hung W.
; APPLICANT: Lin, I-Ian
; TITLE OR INVENTION: Human Orphan G Protein Coupled Receptors
; FILE REFERENCE: AEN0050
; CURRENT APPLICATION NUMBER: US/10/272,983
; CURRENT FILING DATE: 2002-10-17
; PRIOR APPLICATION NUMBER: US/09/417,044
; PRIOR FILING DATE: 1999-10-12
; PRIOR APPLICATION NUMBER: 60/109,213
;

```

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/ PRIOR FILING DATE: 1998-11-20
/ PRIOR APPLICATION NUMBER: 60/120,416
/ PRIOR FILING DATE: 1999-02-16
/ PRIOR APPLICATION NUMBER: 60/121,851
/ PRIOR FILING DATE: 1999-02-26
/ PRIOR APPLICATION NUMBER: 60/123,946
/ PRIOR FILING DATE: 1999-03-12
/ PRIOR APPLICATION NUMBER: 60/123,949
/ PRIOR FILING DATE: 1999-03-12
/ PRIOR APPLICATION NUMBER: 60/136,436
/ PRIOR FILING DATE: 1999-05-28
/ PRIOR APPLICATION NUMBER: 60/136,437
/ PRIOR FILING DATE: 1999-05-28
/ PRIOR APPLICATION NUMBER: 60/136,439
/ PRIOR FILING DATE: 1999-05-28
/ PRIOR APPLICATION NUMBER: 60/136,567
/ PRIOR FILING DATE: 1999-05-28
/ Remaining Prior Application data removed - See file wrapper or PALM.
/ NUMBER OF SEQ ID NOS: 74
/ SOFTWARE: PatentIn Ver. 2.1
/ SEQ ID NO: 14
/ LENGTH: 390
/ TYPE: PRT
/ ORGANISM: Homo sapiens
US-10-272-983-14
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Query Match          66.9%; Score 1370.5; DB 14; Length 390;
Best Local Similarity 68.1%; Pred. No. 1.6e-117;
Matches 267; Conservative 40; Mismatches 82; Indels 3; Gaps 2;
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QY      1 MSESNTGILPPAAQVPLAFIMSSPFAIMGNNAVITLAFVVDKRIHRHSNYFFLNLAIS 60
        |::|||:::|::|||::|||::|||::|||::|||::|||::|||::|||::|||
DB      1 MDTNSTINLSSTRVTILAFMSLVAFAIMLGNALVITLAFVVDKRIHRHSNYFFLNLAIS 60
        |::|||:::|::|||::|||::|||::|||::|||::|||::|||::|||::|||

QY      61 DFLVGLISIPLYIPHYLFMMNFGSGICMFMILTIDYLLCTASYNIYVLISYDRYQSYNAV 120
        ||::|||:::|::|||::|||::|||::|||::|||::|||::|||::|||::|||
DB      61 DFLVGLISIPLYIPHYLFMMNFGSGICMFMILTIDYLLCTASYNIYVLISYDRYQSYNAV 120
        ||::|||:::|::|||::|||::|||::|||::|||::|||::|||::|||::|||

QY      121 SYRAQHTGIMKIYVQWVAWVILAFVNGPMILASDSWKNSNTYTKDCEPGFTWYILIT 180
        ||::|||:::|::|||::|||::|||::|||::|||::|||::|||::|||::|||
DB      121 SYRTQHTGVLEKIVTLVAVWVILAFVNGPMILVSESMKDEGS--ECEPGFSEWYILAIT 178
        ||::|||:::|::|||::|||::|||::|||::|||::|||::|||::|||::|||

QY      181 MLEPLLPYISVAVFVVOIYMSLMKRRLSRCPSHAGFSTSSASGHLHRAGVACRTSN 240
        ||::|||:::|::|||::|||::|||::|||::|||::|||::|||::|||::|||
DB      179 SFLEFVIPVILVAYFMNITWMSLMKRDHLSRCQSHPLTAVSSNICGHSFRGLSSRSL 238
        ||::|||:::|::|||::|||::|||::|||::|||::|||::|||::|||::|||

QY      241 PGAKESAARHSESPPRKSSILVSLRTHNNSITAFKVSFWRESAALRQRYAELLRG 300
        ||::|||:::|::|||::|||::|||::|||::|||::|||::|||::|||::|||
DB      239 SASDEVPAFPHSRQRKSSLMFSSRTKNSNTIASKMSFGQSDVALHQRHVELLRA 298
        ||::|||:::|::|||::|||::|||::|||::|||::|||::|||::|||::|||

QY      301 RLKLARSLAILLSAFALCWAAPYCLFTIIVLSTYPTERPKSVWYSIAFWLQWNSPVNPFLY 360
        ||::|||:::|::|||::|||::|||::|||::|||::|||::|||::|||::|||
DB      299 RLKLARSLAILLSAFALCWAAPYCLFTIIVLSTYPTERPKSVWYSIAFWLQWNSPVNPFLY 358
        ||::|||:::|::|||::|||::|||::|||::|||::|||::|||::|||::|||

QY      361 PLCHRRFQKAFWKILCVTKMPALSO--NQSVS 391
        ||::|||:::|::|||::|||::|||::|||::|||::|||::|||::|||::|||
DB      359 PLCHRRFQKAFWKILCVTKMPALSO--NQSVS 390
        ||::|||:::|::|||::|||::|||::|||::|||::|||::|||::|||::|||
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Search completed: October 18, 2005, 14:57:48
Job time : 170 secs

Db 299 RLKASLAILLGVAVCMAPYSLFTIVLSFYSSATGPKSVWYRIAFWLMQWNSFVNPLLY 358
 QY 361 PLCHRRFQAKFWKILCVTFMPALSO-NQSVSS 391
 Db 359 PLCHRRFQAKFLKFCIKKQPLPSQHSRSVSS 390

RESULT 2
 US-09-812-216-2
 ; Sequence 2, Application US/09812216
 ; Patent No. 6613533
 ; GENERAL INFORMATION:
 ; APPLICANT: Behan, Jiang Xu
 ; APPLICANT: Hedrick, Joseph A.
 ; APPLICANT: Laz, Thomas M.
 ; APPLICANT: Monsma, Frederick J. Jr.
 ; APPLICANT: Morse, Kelley L.
 ; APPLICANT: Umland, Shelby P.
 ; APPLICANT: Wang, Suke
 ; TITLE OF INVENTION: Histamine receptor
 ; FILE REFERENCE: CN01069
 ; CURRENT APPLICATION NUMBER: US/09/812,216
 ; PRIOR FILING DATE: 2001-03-19
 ; PRIOR FILING DATE: 1999-10-07
 ; NUMBER OF SEQ ID NOS: 8
 ; SOFTWARE: Patentin Ver. 2.1
 ; SEQ ID NO 2
 ; LENGTH: 390
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-09-812-216-2

Query Match 66.9%; Score 1370.5; DB 4; Length 390;
 Best Local Similarity 68.1%; Pred. No. 8e-106;
 Matches 267; Conservative 40; Mismatches 82; Indels 3; Gaps 2;
 QY 1 MSESNSGTGLPPAAYPLAFMLSSFAFAMGVAVVILAFVVDRLNRHSNYFFLNLAIS 60
 Db 1 MDTNSTINILSTRVTALFPMFSLVFAIMLGNAVLIAFVVDKMLRHSRYFFLNLAIS 60
 QY 61 DLVNGISLPIYIPHLFMMNFGSGICMFWLITDYLLCTASVYNYVILISYDRYOSVSNV 120
 Db 61 DFFVGISLPIYIPHLFPMDFGKELCVFWLITDYLLCTASVYNYVILISYDRYLSVNAV 120
 QY 121 SYRAQHTGIMKIYVQWAVVILAFVNGPMIILASDSKNSNTWKDCEPGFTWYILIT 180
 Db 121 SRTGHTGYLKIYTLMAVAVVILAFVNGPMIILVSEKDEGS--ECPEPFSEWYILIT 178
 QY 181 MLLEFLPIYSVAYENVQIYWSIMKRRLSRCPSHAGFSTSSASGHLRAAGVACRTSN 240
 Db 179 SFLEFPIYILVAYFMMIYWSIMKRDLSRCQSHGLTAVASNICGHSFRGLSSRRL 238
 QY 241 PGLKSAARSHSESPPKRSILVSRTHNNSITLAFKVSFWRSESAALROREYALRG 300
 Db 239 SASTEVPASFHSRQRKSLMFSSTKXNSNTLASKMSFSQSDVALHOREHELLA 298
 QY 301 RLKASLAILLSAFACWAPYCLFTIVLSTYPTERPKSVWYSIAFWLMQWNSFVNPLY 360
 Db 299 RLKASLAILLGVAVCMAPYSLFTIVLSFYSSATGPKSVWYRIAFWLMQWNSFVNPLY 358
 QY 361 PLCHRRFQAKFWKILCVTFMPALSO-NQSVSS 391
 Db 359 PLCHRRFQAKFLKFCIKKQPLPSQHSRSVSS 390

RESULT 3
 US-08-985-090-2
 ; Sequence 2, Application US/08985090
 ; Patent No. 5885893
 ; GENERAL INFORMATION:
 ; APPLICANT: Andrew D. J. Goodearl
 ; TITLE OF INVENTION: MUSCARINIC RECEPTORS AND USES THEREFOR

/ NUMBER OF SEQUENCES: 28
 / CORRESPONDENCE ADDRESS:
 / ADDRESSEE: LAHIVE & COCKFIELD, LLP
 / STREET: 28 State Street
 / CITY: Boston
 / STATE: Massachusetts
 / COUNTRY: USA
 / ZIP: 02109
 / COMPUTER READABLE FORM:
 / MEDIUM TYPE: Floppy disk
 / COMPUTER: IBM PC compatible
 / OPERATING SYSTEM: PC-DOS/MS-DOS
 / SOFTWARE: Patentin Release #1.0, Version #1.25
 / CURRENT APPLICATION DATA:
 / APPLICATION NUMBER: US/08/985,090
 / FILING DATE:
 / PRIOR APPLICATION DATA:
 / APPLICATION NUMBER:
 / FILING DATE:
 / ATTORNEY/AGENT INFORMATION:
 / NAME: Jean M. Silverl
 / REGISTRATION NUMBER: 39,030
 / REFERENCE/DOCKET NUMBER: MNI-032
 / TELECOMMUNICATION INFORMATION:
 / TELEPHONE: (617)227-7400
 / TELEFAX: (617)742-4214
 / INFORMATION FOR SEQ ID NO: 2:
 / SEQUENCE CHARACTERISTICS:
 / LENGTH: 445 amino acids
 / TYPE: amino acid
 / TOPOLOGY: linear
 / MOLECULE TYPE: protein
 US-08-985-090-2

Query Match 35.3%; Score 722.5; DB 2; Length 445;
 Best Local Similarity 38.8%; Pred. No. 4.9e-52;
 Matches 165; Conservative 51; Mismatches 116; Indels 93; Gaps 10;
 QY 18 LAFMSSPFAFAMGVAVVILAFVVDRLNRHSNYFFLNLAISDFLVGLISIPYIPHL 77
 Db 37 LAAMALLIVATVYLGNAVLMAFVADSLRQNNFFLNLAISDFLVGAFICPIYVPLV 96
 QY 78 F-NNFSGICMFWLITDYLLCTASVYNYVILISYDRYOSVSNVSYRAQHTGIMKIYVQW 136
 Db 97 TGRWTFGRGLCKMLVVDYLLCTSAFNIYVILSYDRPLSVRAVSYRAQGDTRRAVRKM 156
 QY 137 VAVWTLAFVNGPMIILASDSWK-----NSTWTKDCEPGFTWYILITMLLEFLPIYS 191
 Db 157 LVWVTLAFLLYGPALL--SWEYISGGSIFEGHYAFFPYNYFLITASTLEFFTPPLS 213
 QY 192 VAYENVQIY-----WSIMKRRLSRCPSH 215
 Db 214 VTFFNLSTYLNIIQRTRLRLDGAAREAGPEPPPEAQPSPPPPCGCMQGHDEBMDLH 273
 QY 216 -----AGSTTSSASGHLRAGYACTSNPGLKESASRSSEPPKRSILV 263
 Db 274 RYGVGEAAVGAEGAGATLGGGGG---GSVAAPTSSSG---SSSRGTERPR----- 318
 QY 264 SLRTHNNSITLAFKVSFWRSESAALROR-----EYAEILRGRGLARSILILSAF 314
 Db 319 -----SLRGSFPSASASLEKRMKMSOSFQRRRLSRDRKVAASLAVIYSIF 367
 QY 315 AICWAPYCLFTIVLSTYPTERPKSVWYSIAFWLMQWNSFVNPLYPLCHRRFQAKFWKI 374
 Db 368 GLCWAPYTLMLTIRAACHGCHVP-DYWEIETSFWMLMNSANVPYLYPLCHHSFRAAFKTL 426
 QY 375 LCVTYK 379
 Db 427 LCPQK 431

RESULT 4
 US-09-165-543-2

```

; Sequence 2, Application US/09165543
; Patent No. 6093545
; GENERAL INFORMATION:
; APPLICANT: Andrew D.J. Goodearl and Sandra Gluckman
; TITLE OF INVENTION: Muscarinic Receptors and Uses Therefor
; NUMBER OF SEQUENCES: 39
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD, LLP
; STREET: 28 State Street
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/165,543
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 09/042,780
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Elizabeth A. Hanley
; REGISTRATION NUMBER: 33,505
; REFERENCE/DOCKET NUMBER: NMI-032CP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)742-4214
; TELEFAX: (617)742-4214
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 445 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-09-165-543-2

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Query Match      35.3%; Score 722.5; DB 3; Length 445;
Best Local Similarity 38.8%; Pred. No. 4.9e-52;
Matches 165; Conservative 51; Mismatches 116; Indels 93; Gaps 10;

QY 18 LAFLMSSFAFAMGNNAVILAFVVDRLRHRSNYFPLNLAIISDPLVGLISIPLYIHYVL 77
DB 37 LAALMALIIVATVGNALVMLAFVADSSLRQNNFPLNLAIISDPLVGFICPIYVPPYL 96
QY 78 F-NMNFSGICMFMLITDYLLCTASVYNIVLISYDRYOSVSNVSYRAQHTGIMKIVAQM 136
DB 97 TGRWTFGRGLCKMLVVDYLLCTSSAFNIVLISYDRFLSVTRAQSDTRAAVAKM 156
QY 137 VAVWILAFVNGPMLIASDSWK-----NSTNTKDCPEGFVTEWYILITTMLEFLLPVIS 191
DB 157 LLVWVLAFLVGPAIL---SWEYLSGSSIPFGHCYAEFFYMWYFLITASTLEFPTPLIS 213
QY 192 VAYEVVOY-----WSLMKRALSRCSH 215
DB 214 VTFPLSLIYLNIIQRTRLRLDGAREAAQPEPPPAQSPPPPCGCGCQKHGEAMPLH 273
QY 216 -----AGFTTSSASGHLHRAGVACRTSNPGLKESASRHSSEPRKRSITLV 263
DB 274 RYGVGEAAVGAAGATIGGGGG-----GSVASPTSSSG-----SSRGTERR----- 318
QY 264 SLRTHMNSITAFKVGSEFMRSESAALROR-----EYAEELRGRKLARSALAILLSAF 314
DB 319 -----SLKRGSKPSASASLEKRMVQSQTQRFRLSDRKAASGLAVIVSIF 367
QY 315 AICNAPYCLFTIVLSTYRTERPKSVWYSIAFWLQWPNFVNPFLYPLCHRRFQAKAPFKI 374
DB 368 GLCNAPYLLMLTIIRACHGCHVP-DYWTETSFLLMANSANVPVLYPLCHHSFRRAFTKL 426
QY 375 LCVTK 379

```

```

DB 427 LCPQK 431
RESULT 5
US-09-167-354-7
; Sequence 7, Application US/09167354A
; Patent No. 6136559
; GENERAL INFORMATION:
; APPLICANT: Lovenberg, Timothy
; APPLICANT: Etlander, Mark
; APPLICANT: Pyati, Jayashree
; APPLICANT: Huvar, Arne
; TITLE OF INVENTION: DNA ENCODING A HUMAN HISTAMINE RECEPTOR OF THE H3
; FILE REFERENCE: JMW
; CURRENT APPLICATION NUMBER: US/09/167,354A
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 7
; LENGTH: 445
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: PEPIDE
US-09-167-354-7

```

```

Query Match      35.3%; Score 722.5; DB 3; Length 445;
Best Local Similarity 38.8%; Pred. No. 4.9e-52;
Matches 165; Conservative 51; Mismatches 116; Indels 93; Gaps 10;

QY 18 LAFLMSSFAFAMGNNAVILAFVVDRLRHRSNYFPLNLAIISDPLVGLISIPLYIHYVL 77
DB 37 LAALMALIIVATVGNALVMLAFVADSSLRQNNFPLNLAIISDPLVGFICPIYVPPYL 96
QY 78 F-NMNFSGICMFMLITDYLLCTASVYNIVLISYDRYOSVSNVSYRAQHTGIMKIVAQM 136
DB 97 TGRWTFGRGLCKMLVVDYLLCTSSAFNIVLISYDRFLSVTRAQSDTRAAVAKM 156
QY 137 VAVWILAFVNGPMLIASDSWK-----NSTNTKDCPEGFVTEWYILITTMLEFLLPVIS 191
DB 157 LLVWVLAFLVGPAIL---SWEYLSGSSIPFGHCYAEFFYMWYFLITASTLEFPTPLIS 213
QY 192 VAYEVVOY-----WSLMKRALSRCSH 215
DB 214 VTFPLSLIYLNIIQRTRLRLDGAREAAQPEPPPAQSPPPPCGCGCQKHGEAMPLH 273
QY 216 -----AGFTTSSASGHLHRAGVACRTSNPGLKESASRHSSEPRKRSITLV 263
DB 274 RYGVGEAAVGAAGATIGGGGG-----GSVASPTSSSG-----SSRGTERR----- 318
QY 264 SLRTHMNSITAFKVGSEFMRSESAALROR-----EYAEELRGRKLARSALAILLSAF 314
DB 319 -----SLKRGSKPSASASLEKRMVQSQTQRFRLSDRKAASGLAVIVSIF 367
QY 315 AICNAPYCLFTIVLSTYRTERPKSVWYSIAFWLQWPNFVNPFLYPLCHRRFQAKAPFKI 374
DB 368 GLCNAPYLLMLTIIRACHGCHVP-DYWTETSFLLMANSANVPVLYPLCHHSFRRAFTKL 426
QY 375 LCVTK 379
DB 427 LCPQK 431
RESULT 6
US-09-642-855-7
; Sequence 7, Application US/09642855
; Patent No. 6413743
; GENERAL INFORMATION:
; APPLICANT: Lovenberg, Timothy
; APPLICANT: Etlander, Mark
; APPLICANT: Pyati, Jayashree

```



```

QY 18 LAFLMSFAFAIMGNVAVITLAFVVDRLNRHSNYEFLNLASIDFLVGLISIPLYIPHYL 77
DB 41 LAALMALILVAVTGNALVMLAFVADSSLRTONNFFNLALISDLVGAFCIPLYIPHYL 100
QY 78 F-NMNFSGICMFMLITDYLCTASVYVNIIVLISYDRYOSVSNVSYRAQHTGIMKIYVQM 136
DB 101 TGRMTFGRGLCKLMLVVDYLCTSSAFNIVLISYDRFVSTRAVSYRAQGDTRAVRKM 160
QY 137 VAVWIAFLVNGPMILASDSWK-----NSTNTKDCBPGEFTWYILITITMLLEFLPVIS 191
DB 161 LLVWIAFLVNGPAIL---SWEYLSGSSIPBGHCYAEFFVWYFLITASTLEFPTPLIS 217
QY 192 VAVFVVOYI-----WSMKRRLSRCPSH 215
DB 218 VTFEFLSTYLNIOQRTRLRDGAREAPGEPPEPAQSPPPPCGCMQKGHEAMPLH 277
QY 216 -----AGSTSSASGHLHRAVACRTSNPGLKESAAASRHSRSPRRKSILV 263
DB 278 RYGVGEAAVGAAGEATLGGGGG-----GSVASPTSSG-----SSRGTERRP----- 322
QY 264 SLRTHMNSITAFKVGSEFMRSESAALRQ-----EYAEILGRKLARSLAILLSAF 314
DB 323 -----SLKRGSKPSASASLEKRMKVSQSFQRFRLSRDRKVAKSIAVVISIF 371
QY 315 AICWAPYCLFTIVLSTYRTERPKSVWYSIAFMLOMNSFVNPLYPLCHRRPQKAFWKI 374
DB 372 GLCWAPYTLMLTIRAACHGCVF-DWYETSFMLMANSVAVNPVLYPLCHHSFRRAFTKL 430
QY 375 LCVTK 379
DB 431 LCPQK 435

RESULT 9
US-09-891-053-20
; Sequence 20, Application US/09891053
; Patent No. 6750332
; GENERAL INFORMATION:
; APPLICANT: Itadani, Hitaru
; APPLICANT: Takimura, Tetsuo
; APPLICANT: Nakamura, Takao
; APPLICANT: Kobayashi, Masahiko
; APPLICANT: Tanaka, Ken-ichi
; APPLICANT: Hidaka, Yusuke
; APPLICANT: Ohta, Masataka
; TITLE OF INVENTION: NOVEL GUANOSINE TRIPHOSPHATE (GTP)
; FILE REFERENCE: 06501-083001
; CURRENT APPLICATION NUMBER: US/09/891,053
; CURRENT FILING DATE: 2001-09-17
; PRIOR APPLICATION NUMBER: PCT/JP99/07280
; PRIOR FILING DATE: 1999-12-24
; PRIOR APPLICATION NUMBER: PCT/JP98/05967
; PRIOR FILING DATE: 1998-12-25
; PRIOR APPLICATION NUMBER: JP 11/145661
; PRIOR FILING DATE: 1999-05-25
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: FaSTSeq for Windows Version 4.0
; SEQ ID NO 20
; LENGTH: 453
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-891-053-20

```

Query Match 35.3%; Score 722.5; DB 4; Length 453;
 Best Local Similarity 38.8%; Pred. No. 5e-52;
 Matches 165; Conservative 51; Mismatches 116; Indels 93; Gaps 10;

```

QY 18 LAFLMSFAFAIMGNVAVITLAFVVDRLNRHSNYEFLNLASIDFLVGLISIPLYIPHYL 77
DB 37 LAALMALILVAVTGNALVMLAFVADSSLRTONNFFNLALISDLVGAFCIPLYIPHYL 96

```

```

QY 78 F-NMNFSGICMFMLITDYLCTASVYVNIIVLISYDRYOSVSNVSYRAQHTGIMKIYVQM 136
DB 97 TGRMTFGRGLCKLMLVVDYLCTSSAFNIVLISYDRFVSTRAVSYRAQGDTRAVRKM 156
QY 137 VAVWIAFLVNGPMILASDSWK-----NSTNTKDCBPGEFTWYILITITMLLEFLPVIS 191
DB 157 LLVWIAFLVNGPAIL---SWEYLSGSSIPBGHCYAEFFVWYFLITASTLEFPTPLIS 213
QY 192 VAVFVVOYI-----WSMKRRLSRCPSH 215
DB 214 VTFEFLSTYLNIOQRTRLRDGAREAPGEPPEPAQSPPPPCGCMQKGHEAMPLH 273
QY 216 -----AGSTSSASGHLHRAVACRTSNPGLKESAAASRHSRSPRRKSILV 263
DB 274 RYGVGEAAVGAAGEATLGGGGG-----GSVASPTSSG-----SSRGTERRP----- 318
QY 264 SLRTHMNSITAFKVGSEFMRSESAALRQ-----EYAEILGRKLARSLAILLSAF 314
DB 319 -----SLKRGSKPSASASLEKRMKVSQSFQRFRLSRDRKVAKSIAVVISIF 367
QY 315 AICWAPYCLFTIVLSTYRTERPKSVWYSIAFMLOMNSFVNPLYPLCHRRPQKAFWKI 374
DB 368 GLCWAPYTLMLTIRAACHGCVF-DWYETSFMLMANSVAVNPVLYPLCHHSFRRAFTKL 426
QY 375 LCVTK 379
DB 427 LCPQK 431

```

```

RESULT 10
US-09-165-543-5
; Sequence 5, Application US/09165543
; Patent No. 6093545
; GENERAL INFORMATION:
; APPLICANT: Andrew D.J. Goodearl and Sandra Gluckman
; TITLE OF INVENTION: Muscarinic Receptors and Uses therefor
; NUMBER OF SEQUENCES: 39
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD, LLP
; STREET: 28 State Street
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/165,543
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 09/042,780
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Elizabeth A. Hanley
; REGISTRATION NUMBER: 33,505
; REFERENCE/DOCKET NUMBER: NNI-032CP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)227-7400
; TELEFAX: (617)742-4214
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 445 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-165-543-5

```

Query Match 35.0%; Score 716.5; DB 3; Length 445;
 Best Local Similarity 40.2%; Pred. No. 1.6e-51;


```
QY 221 RAGVACRTSNPGLKESASRHSPPRKSILVSRTHMNSITAFKVGSPWRSBSALR 290
; : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 274 SSG-----SSRGTERR-----SLKRGSKPSSASASLEKRAKWSOSIT 313
QY 291 QREYVALLGRKLARSLLISAPAIQWAPYCLFTIVLSTYRTERPKSVWYSIAFWLQW 350
; : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 314 QR--FRLSRDKKVAKSIAIIVSIFGLCWAPYLLMIIRAAHGRCIP--DYWTETSFWM 370
; : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 351 FNSFVNPPLYPCHRRFQKAFWKILCVTK 379
; : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 371 ANSAVNPVLPCHYSFRRAFTKLLCPQK 399
; : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
```

RESULT 13

```
US-09-524-162-2
; Sequence 2, Application US/09524162
; Patent No. 6355452
; GENERAL INFORMATION:
; APPLICANT: Ping Tsui
; TITLE OF INVENTION: HUMAN HISTAMINE H3 GENE VARIANT-2
; FILE REFERENCE: GP-70681
; CURRENT APPLICATION NUMBER: US/09/524,162
; CURRENT FILING DATE: 2000-03-13
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 351
; TYPE: PRT
; ORGANISM: HOMO SAPIENS
US-09-524-162-2
```

Query Match 30.3%; Score 621.5; DB 3; Length 351;

Best Local Similarity 38.3%; Pred. No. 8,9e-44; Indels 73; Gaps 8;

Matches 141; Conservative 44; Mismatches 110;

```
QY 18 LAFMSSPFAFAMVNAVILAFVVDRLRHRSNYFFLNLASIDPLVGLISIPYIPVL 77
; : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 37 LAALMALIIVATVGNALVMLAFVADSSLRTOGNFLLNLASIDPLVG----- 84
; : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 78 FNNMFGSGICMFMLITDYLLCTASVYNYVLISYDRQSVSNVSYRAOHTGIMKIQAQNV 137
; : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 85 -RMTGGRGLCKMLVVDYLLCTSSAFNIVLISYDRFLSVTRAQSGDTRRAVRKML 143
; : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 138 AVMIAPLVNGPMLIASDSWK-----NSTNTKDCBPGFTWYILITIMLEBLLPVISV 192
; : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 144 LWMVLAFLYGPAIL---SWEYLSGGSSIPBCHCYAEFTYNYFLLTASTLEFPTPLSV 200
; : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 193 AYFNQIYWSLMKRRLSRCPHAGFSTTSSASGHLHRAVACRTSNPGLKESASRHS 252
; : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 201 TPFNLSTIYLIORTRL-----RLDGRABAGBEPPEPAQPSRP 239
; : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 253 ESPRKSSTILVSRTHMNSITAFKVGSPWRSBSAALRQREYAIL--RGRKLARSLAIL 311
; : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 240 PPP-----GCM-----GCMQKGHGEMPLHRKVAKSLAVIV 270
; : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 312 SAPAICWAPYCLFTIVLSTYRTERPKSVWYSIAFWLQWPNFVNPPLYPCHRRFQKAF 371
; : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 271 STFGICWAPYLLMIIRAAHGRCIP--DYWTETSFWMANSAVNPVLPCHYSFRRAFT 329
; : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 372 WKILCVTK 379
; : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 330 TKLLCPQK 337
; : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
```

RESULT 14

```
US-08-985-090-5
; Sequence 5, Application US/08985090
; Patent No. 5885893
; GENERAL INFORMATION:
; APPLICANT: Andrew D.J. Goodearl
; TITLE OF INVENTION: MUSCARINIC RECEPTORS AND USES THEREFOR
; NUMBER OF SEQUENCES: 28
; CORRESPONDENCE ADDRESS:
```

ADDRESSEE: LAHIVE & COCKFIELD, LLP
STREET: 28 State Street
CITY: Boston
STATS: Massachusetts
COUNTRY: USA
ZIP: 02109

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/985,090
FILING DATE:
PRIORITY APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Jean M. Silverl
REGISTRATION NUMBER: 39,030
REFERENCE/DOCKET NUMBER: WNI-032
TELEPHONE: (617)227-7400
TELEFAX: (617)742-4214
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 362 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein

US-08-985-090-5

Query Match 28.4%; Score 582.5; DB 2; Length 362;

Best Local Similarity 37.7%; Pred. No. 1.6e-40; Indels 63; Gaps 10;

Matches 137; Conservative 45; Mismatches 118;

```
QY 65 GLISPIYIPVLP--NNMFGSGICMFMLITDYLLCTASVYNYVLISYDRQSVSNVSYR 123
; : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 1 GAFCLPVPYVLPVGRMTFGRLCKMLVVDYLLCASVRFYVLISYDRFLSVTRAQSGD 60
; : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 124 AQHTGIMKIQAQNVAVMIAPLVNGPMLIASDSWK-----NSTNTKDCBPGFTWYIL 178
; : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 61 AQOQDTRAVAKMLVWVLAFLYGPAIL---SWEYLSGGSSIPBCHCYAEFTYNYFLL 117
; : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 179 ITMLEFLLPVISAYFVQIYWSLMKRRL-----SRCSHAGFSTTS 222
; : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 118 SASSTLEFPTPLSTYFNLSTIYLIORTRLRLDGRABAGBEPPEPAQPSPPAPSCWG 177
; : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 223 SSAGH-----LHRAGVACRTSNPGLK-----ESASRHSSESPR 256
; : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 178 CWPKGHGAMPLHRKYGQ--EAGFGVEAGGALAGGGSGGAAAPTSSSGSSRGTERR 235
; : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 257 RKSSILVSRTHMNSITAFKVGSPWRSBSAALRQREYAILRGRKLARSLAILLSAPAI 316
; : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 226 -----SLKRGSKPSSASASLEKRAKWSOSITOR--FRLSRDKKVAKSIAIIVSIFGL 286
; : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 317 CWAPYCLFTIVLSTYRTERPKSVWYSIAFWLQWPNFVNPPLYPCHRRFQKAFWKILC 376
; : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 287 CWAPYLLMIIRAAHGRCIP--DYWTETSFWMANSAVNPVLPCHYSFRRAFTKLLC 345
; : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 377 VTK 379
; : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 346 PQK 348
; : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
```

RESULT 15

```
US-09-165-543-32
; Sequence 32, Application US/09165543
; Patent No. 6093545
; GENERAL INFORMATION:
; APPLICANT: Andrew D.J. Goodearl and Sandra Gluckman
; TITLE OF INVENTION: Muscarinic Receptors and Uses Therefor
; NUMBER OF SEQUENCES: 39
```

```
/
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: LAHIVE & COCKFIELD, LLP
/ STREET: 28 State Street
/ CITY: Boston
/ STATE: Massachusetts
/ COUNTRY: USA
/ ZIP: 02109
/
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: Patent Release #1.0, Version #1.25
/
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/09/165,543
/ FILING DATE:
/ CLASSIFICATION:
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: 09/042,780
/ FILING DATE:
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Elizabeth A. Hanley
/ REGISTRATION NUMBER: 33,505
/ REFERENCE/DOCKET NUMBER: MNI-032CP
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (617)227-7400
/ TELEFAX: (617)742-4214
/
/ INFORMATION FOR SEQ ID NO: 32:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 362 amino acids
/ TYPE: amino acid
/ TOPOLOGY: linear
/ MOLECULE TYPE: protein
/
/ US-09-165-543-32
/
Query Match      28.4%; Score 582.5; DB 3; Length 362;
Best Local Similarity 37.7%; Pred. No. 1.6e-40;
Matches 137; Conservative 45; Mismatches 118; Indels 63; Gaps 10;

QY      65 GLISIPLYIPIVLYF-NMNFSGICMEFWLITDYILCTASYVNIVLISYDRYQSVSNVSYR 123
      1 GAFCIPLVYPVYLTGWTGRGLCKMLVVDYILCASSVENIVLISYDRFLSVTRAVSYR 60
QY      124 AHTGIMKIVAOQVAVMIILAFVNGPMIILASDSWK-----NSTNTKDCBPGFVTEWYILT 178
      61 AOCGDTTRAVRQALVWVLAFLYGPAL---SWEYLSGSSSIPBGHCYAEFFYNYWYPLI 117
QY      179 ITMLEFLPVIISVAVYFNQIYWSLWKRPAL-----SRCPGHAGPSTTS 222
      118 SASTLEFFTFPLSVTFPNIITLNIQRTLRLLDGRENGPRPPDAPSPPPAPPCWG 177
Db      223 SSASGH-----LHRAGVACRTSNPGIK-----ESAASRHSSEPR 256
      178 CWPKGHGEMPLHRYGVG--EAGPGVAGEALGGSGGGAAPTSSSGSSSRGTERPR 235
QY      257 KSSSILVSLRTMNSITLFAKVGSEFRRSAAALRQREYAEILRGKRLASLAILLSAPAI 316
      236 -----SLKRGSKSPASASLEKRWVSOSITOR--FRLSRDKVAKSLAIIVISIFGL 286
QY      317 CNAFYCLFTIVLSTVTERTERPKSVWYSIAFWLQMFNSFVNPFLYPLCHRRFOKAFKILIC 376
      287 CNAFYTLMLTIRAACHGRCLP-DYWTETSFMLLMANSAVNPVLYPLCHYSFRRAFTKLLC 345
Db      377 VTK 379
      346 POK 348
```

Search completed: October 18, 2005, 14:45:07
Job time : 45 secs